

# ThermaCAM<sup>®</sup> B1

*The B1 infrared camera offers a noninvasive means of monitoring and diagnosing the condition of buildings. It provides immediate documentation of as-built or post-restoration quality, post-casualty cause and origin data, plumbing and building envelope water leakage, post-flood and fire water-damaged material assessment, energy use inefficiency, roofing, and even rodent or pest discovery.*



- Ultra-compact
- Affordable
- Crisp, high-quality images
- Easy-view integral 2.5" LCD
- Built-in Laser LocatIR™
- JPEG image storage
- Download images easily to a PC
- Easy-to-operate

## **FIND PROBLEMS FAST**

Monitor and diagnose the condition of buildings quickly and view crisp thermal images on the 2.5" color LCD. Highlight and analyze problems, store images and document results.

## **RUGGED, ERGONOMIC & LIGHTWEIGHT**

Hold in your hand, clip to your belt or place in your toolbox, the B1 weighs just 1.5 lbs. It is the lightest IR and thermal imaging storage camera in the world. Dust and splash proof, the B1 meets IP 54 standards and withstands harsh industrial environments.

## **FLEXIBLE JPEG IMAGE STORAGE**

Store and recall up to 100 JPEG thermal images in the camera's on-board memory. Recall, analyze and share your findings with others in the field using the camera's LCD.

## **PINPOINT PROBLEMS WITH PRECISION**

The built-in Laser LocatIR™ quickly helps you associate the hot spot on the IR image with the real physical target. This feature greatly enhances the ability to target inconsistencies.

## **VIEW SENSITIVE THERMAL IMAGES AT STANDARD TV RATES**

A maintenance-free, state-of-the-art uncooled FPA infrared detector produces highly sensitive thermal images that allow you to detect subtle temperature variations that can signal moisture content in building materials. TV rate imaging (60 hz) allows you to quickly scan large areas or moving targets that cannot be imaged with still shot cameras.

## **DOWNLOAD AND DOCUMENT**

Download thermal images to your PC quickly with QuickView™ software and standard USB or serial cables. Document your findings simply by inserting JPEGs into your favorite word processing programs.

## **SMART POWER MANAGEMENT**

Lightweight, long life Li-Ion battery assures uninterrupted inspections. B1 includes an internal battery charger and optional car/truck charger available.

## **FAST DETECTION FOR FAST ACTION**

Instantly image entire rooms, inspect places that can't be physically reached with moisture meters, reveal wet conditions behind surfaces such as enameled walls and wallpaper that don't readily water stain, track leaks to their source, monitor the drying process, and confirm when a structure is dry.



# THERMACAM® B1 TECHNICAL SPECIFICATIONS

## IMAGING PERFORMANCE

Field of view/min focus distance	25° X 19° / 0.3 m
Thermal sensitivity	0.12°C
Detector type	Focal plane array (FPA) uncooled microbolometer
Spectral range	7.5 to 13 µm

## IMAGE PRESENTATION

Display	2.5" color LCD, 16K colors
Video output	NTSC, standard RCA composite video
Image controls	Palettes (Iron, high contrast rainbow, B/W, B/W inv), level, span, auto adjust (continuous/manual)
Set-up controls	Date/time, language (english,spanish), info, LCD intensity (high/normal/low)
Temperature range	-20°C to +50°C (-4°F to +122°F)

## IMAGE STORAGE

Digital storage functions	Freeze, Standard JPEG images, Delete all images, Delete image, Open
Image storage capacity	Approximately 100 JPEGs

## LASER LOCATIR™

Classification	Class 2
Type	Semiconductor AlGaInP Diode Laser: 1mW/635 nm (red)

## POWER SOURCE

Battery type	Li-Ion
Battery operating time	1.5 hours. Display shows battery status
Battery charging	In camera, AC adapter or 12V from car with optional 12V cable. 2 bay intelligent charger included.
AC operation	AC adapter, 90-260VAC, 50/60Hz/12VDC out
Voltage	11-16 VDC
Power saving	Automatic shutdown and sleep mode (user-selectable)

## ENVIRONMENTAL

Operating temperature range	-15°C to +45°C (+5°F to 113°F)
Storage temperature range	-40°C to +70°C (-40°F to 158°F)
Humidity	Operating and storage 20% to 80%, non-condensing, IEC 359
Water and dust resistant (encapsulation)	IP 54
Shock	25G, IEC 68-2-29
Vibration	2G, IEC 68-2-6

## PHYSICAL CHARACTERISTICS

Weight	< 1.5 lbs. (0.7 kg) including battery
Size (L x W x H)	265mm x 80mm x 105mm (10.4" x 3.2" x 4.1")
Color	Yellow
Tripod mounting	Standard, 1/4" - 20
Cover case	Plastic and rubber

## INTERFACES

USB	Image transfer to PC
RS 232 cable (optional)	Image transfer to PC

## OPTICS

Lenses	One fixed lens supplied (not interchangeable) Select either a standard (24°) or a wide angle (45°)
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## THERMACAM® B1 SYSTEM INCLUDES:

- IR camera with lens
- Ruggedized transport case
- Power supply
- Hand strap
- Lens cap
- QuickView™ software
- USB cable
- User manual
- Power cord
- 2 Batteries with 2 bay charger
- Training CD



A pattern of air leakage is present in this photo. It was discovered that when snow would "drift" against this wall, a water leak would develop. Further examination of the base flashing detail revealed a significant crack at the bottom of the EIFS. Given certain environmental conditions, this detail was a location for water leakage into the building.



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